

RIF, E. Sh.

S.A. IVANOV, ZAVOD LAB 16 (1950) 833-5

RITCHENKOV, A. V.

"On the atomic weight of potassium obtained from shells of sunflower seeds."
Ritchenkov, A. V., Kriventzov, M. I., (p.103)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1938, Volume 8, No. 2

RITCHIE, J.

Muir, R., and Ritchie, J., "Manual of bacteriology" (p. 553), Rev. by K. A. Friede

SO: Advances in Modern Biology, (Uspekhi Sovremennoi Biologii), Vol. X, No. 3, 1939

RTTENBERG, M.I.

Distribution of coal thicknesses and enclosing rocks in a coal-bearing formation. Izv.AN SSSR.Ser.geol. 27 no.8:90-105 Ag '62.
(MIRA 15:8)

1. Laboratoriya geologii uglya AN SSSR, Leningrad.
(Coal geology)

RITENBERG, M.I.; TIMOFEEVA, Z.V.

Alluvial facies of series C_2^5 to the lower parts of C_2^7 in the
Donets Basin's northern edge. Trudy Inst.geol.nauk no.151:209-
240 '54. (MIRA 8:8)

(Donets Basin--Geology, Stratigraphic) (Donets Basin--Coal
Geology)

15-57-4-5060

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,
p 142 (USSR)

AUTHOR: Ritenberg, M. I.

TITLE: Types of Permian Coal Basins in the USSR (Tipizatsiya
permskikh ugol'nykh basseynov SSSR)

PERIODICAL: Tr. Labor. geol. uglya AN SSSR, 1956, Nr 5, pp 83-90

ABSTRACT: Basic features of the proposed classification of
Permian coal basins are: 1) tectonic development of
the structures underlying coal-bearing deposits;
2) tectonic movements of the coal-bearing deposits
themselves. Five types of Permian coal-bearing
basins have been distinguished in the USSR. These
differ in extent of the coal-bearing areas, thickness
of the coal-bearing strata, number and thickness of
coal layers, degree of complexity of the geological
structure and nature of the manifestations of

Card 1/2

15-57-4-5060

Types of Permian Coal Basins in the USSR (Cont.)

· regional metamorphism. Marine, coastal, and continental subtypes are separated within these types. There are fewer types of Permian coal basins than of Carboniferous. This is attributable to the association of Permian coal accumulation with the final phases of Hercynian tectogenesis.

M. Ye. G.

Card 2/2

VOLKOVA, I.B.; NALIVKIN, D.V.; SLATVINSKAYA, Ye.A.; BOGOMAZOV, V.M.;
 GAVRILOVA, O.I.; GUREVICH, A.B.; MUDROV, A.M.; NIKOL'SKIY, V.M.;
 OSHURKOVA, M.V.; PETRENKO, A.A.; POGREBITSKIY, Ye.O.; RITENBERG,
 M.I.; BOCHKOVSKIY, F.A.; KIM, N.G.; LUSHCHIKHIN, G.M.; LYUBER,
 A.A.; MAKEDONTSOV, A.V.; SENDERZON, E.M.; SINITSYN, V.M.; SHORIN,
 V.P.; BELYANKIN, L.F.; VAL'TS, I.E.; VLASOV, V.M.; ISHINA, T.A.;
 KONIVETS, V.I.; MARKOVICH, Ye.M.; MOKRINSKIY, V.V.; PROSVIRYAKOVA,
 Z.P.; RADCHENKO, O.A.; SEMERIKOV, A.A.; FADDEYEVA, Z.I.; BUTOVA,
 Ye.P.; VERBITSKAYA, Z.I.; DZENS-LITOVSKAYA, O.A.; DUBAR', G.P.;
 IVANOV, N.V.; KARPOV, N.F.; KOLESNIKOV, Ch.M.; NEFED'YEV, L.P.;
 POPOV, G.G.; SHTEMPEL', B.M.; KIRYUKOV, V.V.; LAVROV, V.V.;
 SAL'NIKOV, B.A.; MONAKHOVA, L.P.[deceased]; MURATOV, M.V.;
 GORSKIY, I.I., glav. red.; GUSEV, A.I., red.; MOLCHANOV, I.I.,
 red.; TYZHN OV, A.V., red.; SHABAROV, N.V., red.; YAVORSKIY, V.I.,
 red.; REYKHERT, L.A., red.izd-va; ZAMARAYEVA, R.A., tekhn. red

[Atlas of maps of coal deposits of the U.S.S.R.]Atlas kart ugle-
 nakopleniia na territorii SSSR. Glav. red. I.I.Gorski. Zam.
 glav. red. V.V.Mokrinski. Chleny red. kollegii: F.A.Bochkovski
 i dr. Moskva, Izd-vo Akad. nauk SSSR, 1962. 17 p.

(MIRA 16:3)

1. Akademiya nauk SSSR. Laboratoriya geologii uglia. 2. Chlen-
 korrespondent Akademii nauk SSSR (for Muratov).

(Coal geology—Maps)

RITENBERG M I.

ZHEMCHUZHNIKOV, Yu.A.; YARLOKOV, V.S.; BOGOLYUBOVA, L.I.; BOTVINKINA, L.N.;
FEOFILOVA, A.P.; RITENBERG, M.I.; TIMOFEEV, P.P.; TIMOFEEVA, Z.V.;
KROPOTKIN, P.N., red.izd-va; SHEVCHENKO, G.N., tekhn.red.

[Structure and factors determining the accumulation of basic coal-
bearing series and layers in the central Carboniferous of the
Donets Basin. Part 1.] Stroenie i uslovia nakoplenia osnovnykh
uglenosnykh svit i ugol'nykh plastov srednego karbona Donetskogo
bassaina. Moskva, Izd-vo Akad. nauk SSSR, 1959. 331 p. (Akademiia
nauk SSSR. Geologicheskii institut. Trudy, no.15)

(MIRA 12:6)

(Donets Basin--Coal geology)

BYKOVA, M.S.; KUSHEV, G.L.; MEDOYEV, G.Ts.; SHLYGIN, Ye.D.; PETRENKO, A.A.;
RITENBERG, M.I.

Concerning A.A.Petrenko and M.I.Ritenberg's article "Conditions of the formation and the age of carboniferous deposits of the Karaganda series in the Karaganda Basin." Izv.AN SSSR. Ser.geol. no.4:125-131 J1-Ag '53. (MLHA 6:8)

(Karaganda Basin--Geology) (Geology--Karaganda Basin)
(Petrenko, A.A.) (Ritenberg, M.I.)

RITTENBERG, M.I.

Facies and some peculiarities of the cyclic process of jurassic
coal-bearing formations in the Maykyubenskiy Basin. Trudy Lab.
geol.ugl. no.8:148-178 '58. (MIRA 11:12)
(Pavlodar Province--Geology, Stratigraphic) (Coal geology)

RITENBERG, M.I.

2

4306. CLASSIFICATION OF PERMIAN COAL FIELDS IN THE U.S.S.R. Ritenberg, M.I. (Pap. to 2nd Coal Geol. Conf. Leningrad, 1955; Trud. Lab. Geol. Ugiya (Trud. Lab. Geol. Coal, Acad. Sci. U.S.S.R.), 1956, (5), 83-90). The Permian coals are divided into five main types; a map of them is given, and the properties of the types and sub-types are related to their industrial possibilities. (L).

RFV
MT

RITENBERG, M.I.

Typification of Permian coal basins of the U.S.S.R. Trudy Lab.
geol.ugl. no.5:83-90 '56. (MLRA 9:8)

1. Laboratoriya geologii uglia AN SSSR.
(Coal geology)

RITENBERG, M.I.; FADDEYEVA, Z.I.

Coal accumulation in the lower Mesozoic in the Maykyuben' Basin.
Trudy Lab.geol.ugl. no.12:253-298 '61. (MIRA 14:8)
(Kazakhstan—Coal geology)

RITENBERG, M.I.

Distribution of the thickness of coal seams of an area as
revealed by a study made in the Donets Basin. Dokl. AN SSSR
165 no.3:649-652 N '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii
institut. Submitted July 21, 1964.

... ..

A.A. Bilibin, L.N. Belkin.
Conference and seminar on industrial hygiene, community medicine,
and epidemiology, against the pollution of air. . . . 56
Albina I. Kozlovskaya, No. 1, Jan. 1953

RITENKO, G.T.; BEIKINA, Ye.A.

Seminar on problems of industrial hygiene, city planning, and control of air pollution. Gig. sanit., Moskva no. 1:56-57 Jan 1953.
(GLML 24:2)

RITENKO, G.T.

Conference on problems of nutrition. Gig. i san. no.8:56 Ag '53.

(MLRA 6:9)

(Uzbekistan--Nutrition) (Nutrition--Uzbekistan)
(Uzbekistan--Goiter) (Goiter--Uzbekistan)

1. RITENKO, G. T., BELKINA, E. A.
2. USSR (600)
4. Sanitation
7. Conference and seminar on industrial hygiene, community planning, and safe-guarding against the pollution of air. Gig.i san. No. 1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

Country : Yugoslavia
Data Day : Para Animals, The Honeybee. Q-5
No. Jour : RZBiol., No. 4, 1959, No. 16751
Author : Nitarsan, Valerijan
Instit. :
Title : The Obtaining and Preserving of Royal Jelly.
Orig. Pub. : Pecharstvo, 1958, 13, No 2, 39-41
Abstract : The largest amount and the thickest jelly is obtained from 3-4 days old larvae (1 g in 3-4 oviducts). It is recommended to preserve the jelly with the aid of honey (250-300 mg of jelly per 0.5 kg of honey) and to keep it in a dark dish in a cold place.

Card:

1/1

KIRKHENSHTEYN, A., akademik, Geroy Sotsialisticheskogo Truda; KAL'NIN'SH, A. [Kalniņš A.], akademik; STRADIN'SH, P. [Stradiņš, P.], akademik; SUDRABKALN, Yan [Sudrabkalnjs, Jānis], narodnyy poet Latviyskoy SSR MELBARDIS, K., khudozhnik; LAPIN'SH, A. [Lapiņš, A.], narodnyy khudozhnik Latviyskoy SSR; YUROVSKIY, Yu., narodnyy artist SSSR; AVOTS, A., fotolyubitel'; VARDAUNIS, E., khudozhnik, zasluzhennyy deyatel' iskusstv Latviyskoy SSR; GAYLIS, V., kinooperator; RIDZENIYEKS, V., fotograf; KALNIN'SH, E. [Kalnins, E.]; LOGANSON, R. [Iohanson, R.], stareyshiy master khudozhestvennoy fotografii; RIEKSTS, Ya. [Rieksts, J.], fotograf; LERKH, Yu.; FEDOSEYEV, B., fotograf; REYKHMAN, E., zasluzhennyy deyatel' kul'tury Latviyskoy SSR; GROBMAN, Ya. [Grobman, J.], fotograf; OZOLS, Ya. [Ozols, J.], fotograf; TIKNUS, B., fotograf; FADEYEV, Ye., fotograf; RAKE, I., fotograf; BERZTIS, A., fotograf; RAKE, K., fotograf; UPIT, V., fotograf; SHADKHAN, M., fotolyubitel'; RITERS, G., fotolyubitel'.

Organize a society of Soviet photographers! Sov.foto 18 no.4:77 Ap '58.
(MIRA 11:6)

1.Rizhskaya kinostudiya (for Gaylis, Fedoseyev). 3.AN Latviyskoy SSR (for Ridzenieks). 4.Chlen-korrespondent Akademii khudozhestv SSSR (for Kal'nynsh, E). 5.Zhurnal "Rigas foto" (for Rieksts, Gorman, Ozols). 6.Latviyskoye teatral'noye obshchestvo (for Lerkh). 7.Direktor Doma narodnogo tvorchestva imeni E. Melngaylisa (for Reykhman). 8.Predsdatel' Tvorcheskogo soveta (for Grobman). 9.Chlen Tvorcheskogo soveta (for Ozols). 10.Gazeta "TSinya" (for Tiknus). 11.Fotokhronika Latviyskogo telegrafnogo agentstva (for Fadeyev). 12.Institut Latgiprom (for Rake, I.).
(Photography--Societies)

RETOR-STUDNOGA, H.

New finds of the European white birch(Betula pubescens Ehrh.) in Bosnia and Hercegovina. p. 257.

NARODNI SUMAR. (Društvo sumarskih inženjera i tehnicara Bosne i Hercegovine) Sarajevo, Yugoslavia. Vol. 13, no. 5/6, 1959.

Monthly List of East European Accessions (EEAI) LC Vol. 9, no. 2, Feb. 1960.

Uncl.

RITER-STUDENICKA, H.

Yugoslavia (430)

Science-Periodicals

Beauties and curiosities of Carso. p. 293. PRIRODA.
(Hrvatsko prirodoslovno drustvo) Zagreb. Ten no. a year;
illustrated popular science magazines issued by the
Croatian Society of Natural Sciences/ Vol 39, no 8,
Oct., 1952.

East European Accessions List. Library of Congress,
Vol 2, No. 6, June 1953, Unclassified.

RITER-STUDNICKA, Hilda

Flora and vegetation in the dolomites of Bosnia and Herzegovina.
God Biol inst Sar 15 no.1/2:77-112 '62

1. Bioloski institut Univerziteta, Sarajevo.

RITHA, J.

Ritha, J. Production of building blocks by vibration; a contribution to a discussion. p. 242.

SO: Monthly List of the East European Accessions. (EEAL). IC. Vol. 4, no. 10, Oct. 1955. Uncl.

SERGEYEV, A.S., kand.tekhn.nauk; BLAGONRAVOV, V.I., dotsent; RITIN, A.M.,
gornyy inzh.-elektromekhanik (Moskva)

Discussion of I.A.B.Kal'nitskii and S.P.Vasil'evskii's article
"Problems in the automation of stoping equipment in the mining
industry." Gor.zhur. no.5:48-52 My '62. (MIRA 16:1)

1. Krivorozhskiy gornorudnyy institut.

(Mining machinery)

(Automation)

(Kal'nitskii, I.A. B.)

(Vasil'evskii, S. P.)

USSR/Mathematics - Nonlinear Func- 1 Dec 51
tionals

"Theory of Orlicz's Space," M. A. Krasnosel'skiy,
Ya. B. Rutitskiy

"Dok Ak Nauk SSSR" Vol LXXXI, No 4, pp 497-500

Application of general methods and of theorems on
nonlinear functional analysis to study of concrete
classes of nonlinear operators is effected with
aid of various concrete Banach spaces. Study of
many operators with essentially nonpolynomial
nonlinearities cannot be conducted with aid of
spaces ordinarily applied (C , L_p). Authors

202167

USSR/Mathematics - Nonlinear Func- 1 Dec 51
tionals (Contd)

propose certain assumptions relating to the theory
of L^p spaces (Orlicz spaces) for the case where
the function $\Phi(u)$ does not satisfy the Δ_2 -con-
dition. (Cf. W. Orlicz, Bull international de l'Acad
Acad Pol, ser A, Cracovie, 1932.) Submitted by
Acad A. N. Kolmogorov 25 Sep 51.

202167

RUSSIAN, YA. B.

RIILOS E. Az uzemi orvos munkaköre Tasks of a factory doctor Forgórvosi Szemle,
Budapest 1947, 40/5 (132-138) Tables 1

The tasks of a factory-doctor: (1) He must examine and learn the physico-chemical characteristics of the materials used in the workshop and their effect on the worker. Only in this way is he able to solve the problems of prevention and cure. (2) He should take care that the technical outfits, necessary for prevention, are available. (3) Every workman should be examined before being engaged and should be employed only in such work as his state of health permits. The employed workman's condition of health should be noted in a personal file. In that way, if he were discharged he would not be able to attribute a previous illness to his last employment. (4) The factory doctor should spend much time among the workers in order to get acquainted with them. (5) In a factory there is a great need for a dentist too, because in a large number of intoxications the first symptoms appear in the oral cavity.

Melly-Budapest

So: Medical Microbiology and Hygiene, Section IV, Vol. I, #1-6

RITMAN, G.A., inzhener.

On the use of asbestos cement sewage pipes having rubber ring joints and on the quantity of acids and alkalis which should be put into sewage systems. Vod. i san. tekhn. no.5:30 Ag '55. (MLRA 9:2)

1. Gidrotekhnicheskoye proizvodstvennoye izyskaniye Vodokanal-proyekt.
(Sewer pipe)

SPIROVA, V., aspirant; YAGLINA, K.; RITMAN, I.; GINSBURG, V.

Assembly-line work and wage payment systems. Sots. trud 6 no.8:
105-115 Ag '61. (MIRA 14:8)

1. Kafedra politekonomii Ural'skogo gosudarstvennogo universi-
teta (for Spirova). 2. Nachal'nik otдела труда i zarabotnoy platy
fabriki "Uralobuv'" (for Yaglina). 3. Nachal'nik konstruktor-
skogo byuro Moskovskoy obuvnoy fabriki imeni Kapranova (for
Ritman). 4. Starshiy inzh. gruppy organizatsii proizvodstva
fabriki "Uralobuv" (for Ginsburg).

(Shoe industry) (Assembly-line methods)
(Wage payment systems)

RIT'AN, I., inzh.

Commission for the Control of Administrative Operations and Labor.
Sots.trud 5' no.1:112-115 Ja '60. (MILa 13:6)

1. Predsedatel' komissii po osushchestvleniyu partiynogo kontrolya
deyatel'nosti administratsii po vnedreniyu tekhniki na sbuyvoy
fabrike im. Kapranova.
(Manufacture)

25(1)

PHASE I BOOK EXPLOITATION

SOV/1888

Moscow. Vyssheye tekhnicheskoye uchilishche

Prokatnyye stany i tekhnologiya prokatki; sbornik statey (Rolling Mills and Processing by Rolling; Collection of Articles) Moscow, Mashgiz, 1958. 208 p. (Series: Its: [Trudy] 84.) Errata slip inserted. 3,000 copies printed.

Ed.: A.I. Tselikov, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: L.A. Osipova; Tech. Ed.: B.I. Model'; Managing Ed. for Literature on Heavy Machine Building (Mashgiz): S.Ya. Golovin, Engineer.

PURPOSE: This collection of articles is intended for workers of scientific-research institutes and plants, teachers, aspirants, and students specializing in the field of rolling mill engineering.

COVERAGE: This book is composed of theoretical and experimental works and proceedings presented at MVTU imeni Bauman (Moscow Higher Technical School imeni N.Ye. Bauman) by the Department of Machinery and Processes of Rolling and Drawing. It covers the theory of rolling and manufacturing methods described as new. The articles deal with the problem of determining forces in a planetary mill, the study of the

Card 1/5

Rolling Mills and Processing (Cont.)

SOV/1868

process of metal deformation on plain and shaped rolls, continuous cold rolling of pipe, and methods of selecting tools and fixtures for new mills. No personalities are mentioned. References follow each article.

TABLE OF CONTENTS:

Introduction

3

Tselikov, A.I., Corresponding Member, Academy of Sciences, USSR, and R.I. Ritman, Engineer. Determining Forces Acting on Rolls in Planetary Rolling Mills

5

The article gives theoretical substantiation for the calculation of forces and torques in planetary mills. This is claimed to be the first such substantiation.

Zaroshchinskiy, M.L., Doctor of Technical Sciences, Professor. Work Piece Deformation During Rolling in a Blooming Mill

32

The author discusses three problems associated with the process of deformation of metal in a blooming mill: selection of the amount of draft, the nature of deformation, and preparation of schedules for drafts. He recommends (a) the construction of plasticity diagrams based on the total deformation, (b) rolling in a blooming mill without free lateral spread, and (c) setting values for drafts for all passes.

Card 2/5

Rolling Mills and Processing (Cont.)

SOV/1888

Muzalevskiy, O.G., Candidate of Technical Sciences. Investigating Inner Metal Flow and the State of Stresses in the Area of Contact During Rolling 47

The author presents methods of investigating inner metal flow and the state of stresses in the contact area during rolling of specimens provided with drilled holes. These methods include the use of motion pictures. He gives an analysis of the curves of deformation of the inner layers, the distribution of the longitudinal velocities, and metal flow in the area of contact. By analyzing geometrical changes in drilled holes (diameter, circumferences, area, etc.), some special features of state of stress in the contact area during rolling were determined.

Prushkarev, V.F., Candidate of Technical Sciences. The Problem of the Effect of the "Outer Zones" on Resistance to Deformation During Rolling 92

The author discusses experimental data on the effect of the inner layers of the work on the resistance to deformation during rolling.

Korolev, A.A., Candidate of Technical Sciences. Consideration of Elastic Flattening of Rolls Along the Contact Arc in Determining Pressure of the Work on Rolls During Rolling 94

The author describes the method of determining the pressure of the work

Card 3/ 5

Rolling Mills and Processing (Cont.)

SOV/1888

on rolls, with consideration being given to the elastic flattening of rolls.

Zhavoronkov, V.A., Candidate of Technical Sciences, and Ye.A. Zhukevich -
Stosha, Engineer. Basic Parameters of the Tools of Mills for Rolling
Periodic Shapes

106

The author discusses the basic types of rolls for three-roll periodic
shape rolling mills, giving recommendations for selecting wear-
resistant material for tools and a graphic method for designing tracers
for new mills.

Grishkov, A.I., Engineer. Investigation of Spreading During Rolling in
Plain Rolls

118

Grishkov, A.I., Engineer. Dependence of the Average Unit Pressure and the
Width of a Strip During Hot Rolling in Plain Rolls

172

In this article and the preceding one the author deals with problems
connected with the theory of spreading and derives related equations.
He also presents experimental material on the effect of strip width on
spreading and average unit pressure, thus confirming the theory of
spreading developed by A.I. Tselukov.

Card 4/5

Rolling Mills and Processing (Cont.)

SOV/1888

Burdin, V.M., Engineer. Cold Rolling of Thin-walled Steel Tubes on a Long Mandrel

185

The author presents the results of an investigation concerned with the cold rolling of tubes on a long mandrel. 16, 33, and 38 mm. carbon steel tubes, and 15 and 16 mm. stainless steel tubes with various ratios of diameter to wall thickness were rolled in the same stand, while 16 mm. tubes were rolled continuously in six stands. Pass design is described; reduction regimes for various tube sizes are determined; and the results of an investigation on the selection of material for rolls and mandrels are presented.

AVAILABLE: Library of Congress

Card 5/5

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L 8855-66 EWT(d)/EWT(m)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(l)/EWA(h)/EWA(c) JD/HW

ACC NR: AP5026482

SOURCE CODE: UR/0286/65/000/019/0009/0009

INVENTOR: ^{44.55} Zhukevich-Stosha, Ye. A.; ^{44.55} Solov'yev, O. P.; ^{44.55} Ritman, R. I.; ^{44.55} Shaver, A. B.;
^{44.55} Azimov, S. K.; ^{44.55} Brovman, M. Ya.; ^{44.55} Iskel', L. G.; ^{44.55} Kurbatov, I. V.

ORG: none

TITLE: Planetary rolling mill. Class 7, No. 175025

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 9

TOPIC TAGS: tube, ^{44.55} tube rolling, rolling mill, ^{44.55} metal rolling

ABSTRACT: This Author Certificate introduces a planetary rolling mill (based on Author Certificate No. 124398). For rolling tubes with variable cross section, the mill is equipped with a gear which meshes with the gears of the planetary rolls. The gear is turned by an auxiliary drive and a device which moves the mandrel during rolling, both of which are controlled by a copying attachment. Orig. art. has: 1 figure. [AZ]

SUB CODE: 13/ SUBM DATE: 29Jan64/ ATD PRESS: 4152

BVA

Card 1/1

UDC: 621.771.064

SOV/137-59-3-6744

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 258 (USSR)

AUTHORS: Tselikov, A. I., Ritman, R. I.

TITLE: The Principle of Designing Planetary Rolling Mills (Osnovy rascheta planetarnykh prokatnykh stanov)

PERIODICAL: V sb.: Vopr. obrabotki metallov davleniyem. Moscow, AN SSSR, 1958, pp 73-85

ABSTRACT: During rolling (R) in a planetary mill (PM) the reduction of metal is periodic in nature and, therefore, the process is analogous to the process of R in Pilger mills. Owing to this analogy, the assumptions of A. I. Tselikov regarding processes of periodic R may serve as the basis of computing the forces operating during R in PM's. Each working roll (WR) displaces a certain volume of metal, the displacement being governed by the rate of feed, s , per WR: $s = v_0 / h_{sep} z$, where v_0 is the rate of feed of the slab into the PM; h_{sep} the number of revolutions of the separator, and z the number of WR's. The effect of spread is neglected in the computations. The curve representing the contour of the metal in the contact area is displaced by a distance Δx and is called the displaced initial contour; similarly, the

Card 1/3

SOV/137-59-3-6744

The Principle of Designing Planetary Rolling Stands

volume of the metal displaced is called the displaced volume. $\Delta x = s + \Delta s$ In order to determine the displacement Δx of the initial contour, four different instances of R are examined. Since the upper and lower surfaces of metal rolled in PM's exhibit crest formations, the height of the latter and the exit angle formed by the WR's with respect to the metal on the delivery side must be determined. In order to determine the magnitude of the contact area, the length and the position of the contact arc are found as functions of Δx . The direction of the resultant roll pressure, in the case when only one pair of WR's is present in the zone of reduction, is assumed to lie along a straight line connecting the point of application of the resultant pressure with the centers of the contact areas on the working and back-up rolls (BR). The point of application of the resultant pressure is assumed to be at the center of the contact arc, while the center of the contact area is situated at the point of tangency between the WR and BR which had not been deformed. A method and formulas for the determination of the magnitude of relative reduction in PM's are presented. From an analogy with the ordinary R process it is assumed that the magnitude of the linear reduction and the value of the original thickness are measured in a direction parallel to a line connecting the centers of both the WR's and BR's. Approximate methods for determining the contact arc and the relative reductions are given. Strain-rate values, R moments, Card 2/3

SOV/137-59-3-6744

The Principle of Designing Planetary Rolling Stands

and the forces required to push the work into the rolls are determined for a case in which the reduction zone consists only of one pair of WR's.

A. b.

Card 3/3

TSELIKOV, A.I.; RITMAN, R.I., inzh.

Determining forces acting on planetary mill rolls. [Trudy] MVTU
no. 84:5-31 '58. (MIRA 12:5)

1. Chlen-korrespondent AN SSSR (for TSelikov).
(Rolling mills--Testing)

RITMAN, R.I.

PHASE I BOOK EXPLOITATION 967

Akademiya nauk SSSR. Institut mashinovedeniya. Laboratoriya obrabotki metallov davleniyem

Voprosy obrabotki metallov davleniyem (Problems of Metal Forming) Moscow, Izd-vo AN SSSR, 1958. 85 p. 4,500 copies printed.

Resp. Ed.: Tselikov, A.I., Corresponding Member, USSR Academy of Sciences;
Ed. of Publishing House: Bankvitser, A.L.; Tech. Ed.: Guseva, I.N.

PURPOSE: This book is intended for scientific research workers and designers in the field of metal forming.

COVERAGE: This book contains 4 articles which discuss various theoretical aspects of metal forming, such as the theory of sheet-metal forming (drawing), the experimental design of complex drawing dies, and data on research work for determining the actual magnitude and character of forces in rolling of metals to achieve maximum utilization of power and reduction of weight of existing rolling equipment and of new machinery under construction.

Card 1/2

Problems of Metal Forming

967

TABLE OF CONTENTS:

Tomlenov, A.D. The Plastic State of Stress and the Stability of the Process of Drawing Parts Having a Complex Configuration 3

Serep'yev, V.V. Effect of the Tongue-and-groove Clamping on the Process of Forming of Parts During Drawing 24

Rokotyan, Ye.S., Professor, Doctor of Technical Sciences . Forces Acting in Roughing and in Sheet Mills 46

Tselikov, A.I. and Ritman, R.I. Fundamentals of Planetary Rolling-mill Design 73

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Card 2/2

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